Review of DAQ Procedures

- Need someone to review Buddy Guide
 - Last done Dec. 2001 by Brian Davies
 - Changes since beginning of 2002:
 - New L3/DAQ system
 - New Significant Event System
 - Added L2 to readout
 - New logbook features
- Need <u>everyone</u> to review DAQ Shifters Guide
 - Verify/validate the current contents
 - Remove outdated docs & Replace with updates
 - Contact expert(s) for assistance
 - Request simple & concise "non-expert" instructions
 - Write up your own documentation when appropriate
 - How-to, Troubleshooting, DAQ Shifter specific, etc.
 - Binders & tabs located in supply cabinet

Maximizing Readout System

- Muon readout crate errors
 - Instead of removing the Muon crate, the shifter may be able to disable one or more of the cards in that crate
 - This is called a configuration change with approval of Shift Captain & coordination with Muon shifter, stop the run, make comments & log entry, and start a new run
 - Will not require a new trigger download
 - Will affect the L2 Muon readout crates Contact L2 expert
- Always verify the status of crates NOT in readout when you come on shift
 - Make sure whiteboard is correct (check email & logbook)
 - Talk with detector shifters or experts
 - Most commonly taken out: any or all of the L2 crates
 - Crate x13 is in commissioning stage

Communication in the Control Room

- Shift Captain (SC) needs to know what is going on
 - Remember: the SCs are filling out checklists
 - The SC decides when to <u>Start</u> or <u>Stop</u> a Run
 - The SC gives you the info on Run quality
 - Keep SC informed on: Crates in Run, Prescale Sets & Alarms
 - Confirm with SC that you issued store_begin & store_end
 - Michael Begel informed me that D0 has 27 stores with incorrect stop/start times & numbers - CDF only three times (as of March 2002)
 - Happened again last week!
 - The SC gets the call from the MCR when shot setup begins, when scraping ends (Store becomes official) & when the store will be dumped
 the DAQ Shifter & SC must synchronize
- Verbalize your activity
 - Everyone should know when you:
 - Stop & Start or Pause & Resume a run
 - Having L3/DAQ problems
 - When you leave the control room
 - You should know what detector shifters are doing...
 - Calorimeter Pedestal downloads affect everyone!
 July 2002 DAQ Shifters' Mtg
 Alan L. Stone Louisiana Tech University

New Procedure

Runs.txt file

- Scott Snyder wrote a script that automatically scrapes the useful information from the database after the run has ended
- You no longer need to scramble for info at the end of a run
- How to do it:
 - cd /home/d0run/runsum/
 - setup d0online
 - ./runsum.py "Run #"
- Copy & paste the output into the Runs.txt file

runsum.py

```
<d0ol 07> ./runsum.py 159769
Run: 159769 Store: 1530 2002-Jul-16
00: 26: 09--2002-Jul -16 04: 26: 31 (14422s)
Config: official/global_CalMuon_noL2MU-7.40
Presc: 06E30
Shifter: Jyothsna Rani
Comment: physics run
Solenoid on reverse (4749.6938A)
Toroid on forward (1499. 4532A)
Begin Ium: 6.89E30 (LBN 1393631)
End I um: 5.62E30 (LBN 1393946)
Crates not used: 0x24 0x25
Streams:
  all 362107 evts 187 partitions (25.11Hz)
<d0ol 07>
```